

3.3**Practice C**

For use with pages 130–136

Solve the equation. Check your solution.

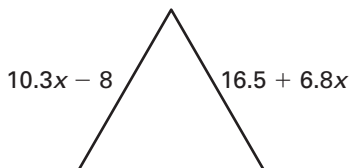
1. $10x - 43 = 39 + 7(x - 10)$
2. $9x - 4(x + 8) = 3(2x - 7)$
3. $-3x - 5(2x - 5) = 6(-3x - 10)$
4. $0.6x - 14 = 0.5x - 6.5$
5. $0.75x + 8 = -20 + 0.25x$
6. $-3.3x + 9.2 = -6.8 + 12.7x$
7. $5.1x - 11.4 = -0.9x - 17.4$
8. $24.4 + 2.7x = 5x - 30.8$
9. $4(x - 0.5) + 10.5 = 2(x + 11.5) - 2.5$
10. $-3(2.5x - 1) + 20.2 = -35.475 - 5x$

Write the verbal sentence as an equation. Then solve the equation.

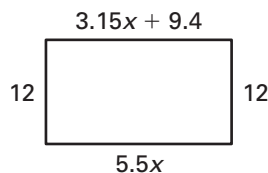
11. Six plus 0.25 times a number is equal to 0.8 times the number minus 5.
12. Twelve minus 1.8 times a number is equal to 22.8 minus 2.7 times the number.
13. Negative twenty minus 4.6 times a number is equal to -2.3 times the number plus 16.8.
14. Seven times a number minus 10.75 is equal to 6.8 times the number plus 0.95.

Find the perimeter of the triangle, rectangle, or square. The sides of the triangle are equal in length.

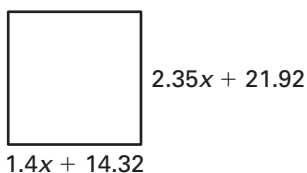
15.



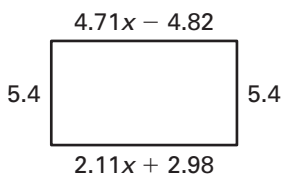
16.



17.



18.



19. The balances of two investments are changing at steady rates. One investment of \$1450 is decreasing by \$105.75 each month. The other investment of \$825 is increasing by \$144.25 each month. Write and solve an equation to find how many months it takes the balances of the investments to be the same. Let m represent the number of months.
20. A flower garden has the shape shown at the right. The diameter of the inner circle is 12 feet. Write and solve an equation to find the length x of a walkway.

